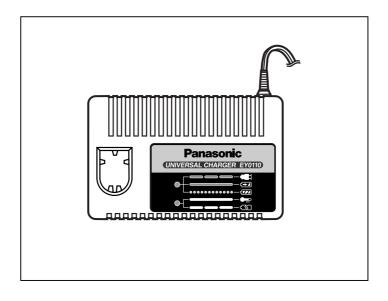
Panasonic

Battery charger

Operating Instructions

Model No: EY0110



IMPORTANT

This manual contains safety information. Read manual completely before first using this product and save this manual for future use.

I. IMPORTANT SAFETY INSTRUCTIONS

1) SAVE THESE IN-STRUCTIONS -This manual contains important safety and operating instructions for battery charger EY0110.

- 2) Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack.
- 3) **CAUTION** To reduce the risk of injury, charge only Battery Pack as shown below.

EY9065, EY9066, EY9168, EY9080, EY9086, EY9180, EY9182, EY9001, EY9006, EY9101, EY9106, EY9200, EY9201, EY9136, EY9230, EY9231, EY9251, EY9117, EY9210

Other types of batteries may burst causing personal injury and damage.

- Do not expose charger to rain or snow.
- To reduce risk of damaging the electric plug and cord, pull by plug rather than cord when disconnecting charger.
- Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- An extension cord should not be used unless absolutely necessary.

Use of improper extension cord could result in a risk of fire and electric shock. If extension cord must be used, make sure that:

- a.pins on plug of extension cord are the same number, size and shape as those of plug on charger.
- b. extension cord is properly wired and in good electrical condition.
- c. wire size is large enough for ampere rating of charger as specified below.

RECOMMENDED MINIMUM AWG SIZE OF EXTENSION CORDS FOR BATTERY CHARGERS

AC Input Rating.	Amperes	AWG Size of Cord
Equal to or	But less	Length of Cord, Fee
greater than	than	25 50 100 150
0	2	18 18 18 16

- Do not operate charger with damaged cord or plug—replace them immediately.
- Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.
- 10) Do not disassemble charger; take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce the risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning.
- 12) The charger and battery pack are specifically designed to work together. Do not attempt to charge any other cordless tool or battery pack with this charger.
- 13)Do not attempt to charge the battery pack with any other charger.
- 14)Do not attempt to disassemble the battery pack housing.
- 15)Do not store the tool and battery pack in locations where the temperature may reach or exceed 50°C (122°F) (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.
- 16)Do not charge battery pack when the temperature is BELOW 0°C (32°F) or ABOVE 40°C (104°F). This is very important.
- 17)Do not incinerate the battery pack. It can explode in a fire.
- 18) Avoid dangerous environment. Do not use charger in damp or wet locations.
- 19) The charger is designed to operate on standard household electrical power only. Do not attempt to use it on any other voltage!

- 20)Do not abuse cord. Never carry charger by cord or yank it to disconnect from outlet. Keep cord away from heat, oil and sharp edges.
- 21) Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.
- 22)Use of an attachment not recommended may result in a risk of fire, electric shock, or injury to persons.
- 23)Do not short the battery pack. A battery short can cause a large current flow, over heating and burns.
- 24)NOTE: If the supply cord of this appliance is damaged, it must only be replaced by a repair shop appointed by the manufacturer, because special purpose tools are required.
- 25)TO REDUCE THE RISK OF ELECTRIC SHOCK, THIS APPLIANCE HAS A POLARIZED PLUG (ONE BLADE IS WIDER THAN THE OTHER). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

II-CHARGING THE BATTERY

NOTE:

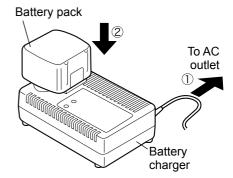
When you charge the battery pack for the first time, or after prolonged storage, charge it for about 24 hours to bring the batteries up to full capacity.

1. Plug the charger into the AC outlet.

NOTE:

Sparks may be produced when the plug is inserted into the AC power supply, but this is not a problem in terms of safety.

2. Insert the battery pack firmly into the charger.



3. During charging, the charging lamp will be lit.

When charging is completed, an internal electronic switch will automatically be triggered to prevent overcharging.

- Charging will not start if the battery pack is warm (for example, immediately after heavy-duty operation).
 The orange standby lamp will be lit until the battery cools down.
 Charging will then begin automatically.
- When charging is completed, the charging lamp will start flashing quickly in green color.
- 5. When in any of the conditions that battery pack is too cool, or the battery pack has not been used for a long time, the charging lamp is lit.

In this case, charging takes longer to fully charge the battery pack, than the standard charging time.

- If a fully charged battery pack is inserted into the charger again, the charging lamp light up. After several minutes, the charging lamp may flash quickly to indicate the charging is completed.
- If the charging lamp does not light immediately after the charger is plugged in, or if after the standard charging time the lamp does not go off, consult an authorized dealer.

NOTE:

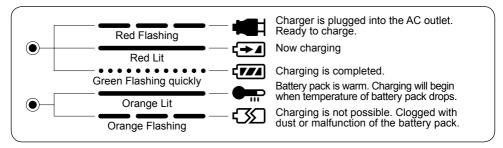
 When charging a cool battery pack (below 5°C (41°F) in a warm place, leave the battery pack at the place and wait for more than one hour to warm up the battery to the level of the ambient temperature. Otherwise battery pack may not be fully charged.

- Cool down the charger when charging more than two battery packs consecutively.
- Do not insert your fingers into contact hole, when holding charger or any other occasions.

CAUTION:

- Do not use power source from an engine generator.
- Do not cover vent holes on the charger and the battery pack.

III.LAMP INDICATIONS



IV.SPECIFICATIONS

Model		EY0110					
Electrical rating		See the rating plate on the bottom of the charger.					
Weight		0.78 kg, (1			1.72 lbs.)		
Charging time 2.		7.2V	9.6 V	12V	15.6V	18V	24V
	1.2Ah	EY9065 EY9066	EY9080 EY9086	EY9001 EY9006			
		20min.					
	1.7Ah		EY9180 EY9182	EY9101			
			25r	nin.			
	2.0Ah	EY9168		EY9106	EY9136		EY9117
		30min.		30n	nin.		60min.
	3.0Ah			EY9200	EY9230		EY9210
				45n	45min. 90m		90min.
	3.5Ah			EY9201 55n	EY9231 nin.	EY9251 65min.	

NOTE: This chart may include models that are not available in your area. Please refer to the catalogue.

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